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LAWS OF PENNSYLVANIA

FROM

1874 to 1885

INCLUSIVE

RELATING TO THE

GEOLOGICAL SURVEY

AND ITS PUBLICATIONS.

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# SESSION OF 1874.

No. 98.

## AN ACT

To provide for a Geological Survey of the State.

SECTION 1. *Be it enacted, &c.*, That the Governor, with the advice and consent of the Senate, shall, as soon as practicable after the passage of this act, appoint ten suitable commissioners from different sections of the State, who, with the Governor as chairman *ex officio*, shall constitute a board to prosecute the work contemplated in this act; the persons so appointed shall hold office during the continuance of the work, and any vacancies in their number caused by death or resignation, shall be filled by the Governor with the consent of the Senate.

Ten commissioners to be appointed.

They and the Governor to constitute a board.

How vacancies are to be filled.

SECTION 2. The commissioners before entering on their duties, shall respectively take and subscribe the oath required of other State officers, which shall be filed in the office of the Secretary of the Commonwealth, who is hereby authorized and directed to administer said oath.

To be sworn.

SECTION 3. The said board is hereby authorized to rent rooms in Harrisburg at a moderate and usual rent, to use for the purposes of the survey created by this act, and shall therein also hold its regular meetings; such meetings shall be held at least once in every three months and as much oftener as required by the exigencies of its affairs, and the due furtherance of the survey; the time for the regular meetings shall be fixed at the time of its organization.

Authorized to rent rooms.

Meetings.

SECTION 4. The commissioners shall receive no compensation for services but their actual traveling and other necessary expenses, which shall be paid by the State Treasurer on the certificate of the Auditor General; and no commissioner or officer under this act shall derive pecuniary profit from the appropriation made by this act, other than is specified.

Not to receive compensation.

SECTION 5. The board shall be convened by the Governor as soon as practicable, and it shall have power to make such regulations for the management of its

May make regulations and employ clerk.

business as it may deem expedient, and may, if necessary, employ a clerk.

To organize geological survey of State.

Purpose of survey.

To collect specimens to form cabinet.

State geologist and assistants to be appointed.

Salaries.

Work to be done on plan of board.

Geologist to make and submit estimates of expenses.

To be under control of board.

Be present at meetings.

Duties of board.

SECTION 6. The board created by this act shall, on its organization, take charge of and conduct as it may deem to the best interests of the State, the business of organizing a thorough and extended geological survey of the State. The purpose of the said survey shall be to make such investigations as may be required to thoroughly elucidate the geology of the State and to put the result of this and previous work of individuals or surveys into a convenient form for reference; and further, to make such full chemical examination of ores, coals, oils, clays, soils, fertilizing and other useful minerals and waters as shall be required to afford the agricultural, mining, metallurgical and other interests of the State a clear insight into the character of its resources; the said board shall also cause to be collected such specimens as may be necessary to form a complete cabinet collection of specimens of the geology and mineral resources of the State.

SECTION 7. To carry out the purposes of this act, the board is hereby authorized and required to appoint a State geologist of ability and experience, who shall control the execution of the details of the survey; and the said geologist shall appoint such competent assistants as may be required to carry out the purposes of the survey, none of whom shall be members of the board; all salaries shall be fixed by the board, which is hereby required to make yearly agreements with the geologist and his assistants as to their salaries; it shall also fix the rates at which the geologist may employ such temporary assistants as he may require; the work of the survey shall be done on such plan as shall be approved by the board; on the adoption of the plan, the geologist shall immediately and thereafter as often as may be required, make out estimates for all necessary implements and materials for the work, and for all necessary expenses, and these estimates shall be submitted to and be subject to the approval of the board. The said State geologist, with his assistants, shall be under the control of the board, but after the approval of the plan submitted by the geologist, his assistants shall be responsible to him for the proper execution of their work. The State geologist shall be present at the meetings of the board and take part in its discussions.

SECTION 8. The said board shall collect copies of the surveys of this and other States and countries, and shall

digest the information therein contained to the end that the survey created by this act may be made as thorough, practical and convenient as is possible. All works so collected shall be the property of the State. It shall further be the duty of the members of the board, in addition to those already specified, to furnish, from time to time, to the State geologist, any and all information which will contribute to the development of the facts relating to the mining, agricultural and other pursuits of the State.

SECTION 9. It shall be lawful for all persons employed by the geological survey created by this act to enter, without molestation, into and upon all lands and localities of this State which it may be necessary to examine for the purposes of this survey. The board shall avail itself, as fully as possible, of the information, maps and surveys possessed by citizens and corporations in this State relating to the geology and topography of the State. All the facts, of whatever nature, obtained by the survey, shall be considered public property, and any concealment or speculative use of the same is strictly prohibited. All publications of the board shall be copyrighted by it in the name of the State.

Employés may enter upon lands.

Facts obtained to be public.

Publications to be copyrighted

SECTION 10. And it shall be the duty of the State geologist annually, before the fifteenth day of February in each year, to prepare a detailed report of the operations of the year, and the facts obtained by the survey; he shall submit the same to the board, which is hereby authorized to print and publish the said reports in a suitable and convenient form, adapted to modern requirements. Copies of the reports, with all maps and supplements, shall be donated to all public libraries, universities and colleges in the State, and shall be furnished at cost of publication to all other applicants for them.

Geologist to make report annually.

To be printed.

How copies thereof to be disposed of.

SECTION 11. To carry out the purposes of this act, the sum of thirty-five thousand dollars is hereby annually appropriated for three years. All expenditures made in carrying out this work shall be, after the approval of the board, certified by the same, upon proper vouchers, to the Auditor General, who shall draw his warrant upon the State Treasurer for the amount: *Provided*, That no salaries or other expenditures under this act shall commence until the officers herein named have entered upon the execution of their respective duties.

Appropriation of \$105,000.

Expenditures.

APPROVED—The 14th day of May, A.D. 1874.

J. F. HARTRANFT.

RESOLUTION: Passed at Session of 1875.

No. 1.

JOINT RESOLUTION

Providing for the printing of additional copies of the reports of the board of commissioners of the geological survey of Pennsylvania.

SECTION 1. *Be it resolved, &c.*, That five thousand copies be printed of the report on the mineralogy of Pennsylvania, by F. A. Genth, and the special report on petroleum, by Mr. Henry E. Wrigley, with accompanying maps and charts, reported by the Board of Commissioners of the geological survey of Pennsylvania, one thousand copies for the use of the Senate and four thousand copies for the use of the House of Representatives.

APPROVED—The 18th day of March, A. D. 1875.

J. F. HARTRANFT.

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SESSION OF 1876.

No. 135.

AN ACT

To make appropriation for the continuance of the geological survey of the State.

SECTION 1. *Be it enacted, &c.*, That for the purpose of continuing the geological survey of the State, the sum of fifteen thousand dollars be appropriated for the year eighteen hundred and seventy-six, and the sum of fifty thousand dollars for the year of eighteen hundred and seventy-seven; and said sums shall be expended in conformity with the provisions of the act, approved May 14th, eighteen hundred and seventy-four, entitled "An Act to provide for a geological survey of the State."

Appropriation  
of \$65,000.

APPROVED.—The 13th day of May, A. D. 1876.

J. F. HARTRANFT.

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No. 66.

AN ACT

To regulate the sale and distribution of the reports of the geological survey of the State of Pennsylvania.

SECTION 1. *Be it enacted, &c.*, That the board of commissioners of the geological survey of the State be

and they are hereby authorized to donate a copy of each report and map published by them to every member of the geological corps, and to each author of a report twenty copies of such report, and to distribute gratuitously fifty copies of each report, and to sell copies of the reports to booksellers at a reasonable discount on their value.

Board to donate a certain number of copies

To sell to booksellers at a discount.

SECTION 2. That the commissioners of the geological survey shall furnish to the Senate and House of Representatives, for distribution among the people of the State, ten thousand copies of the reports now on hand in their department, as they may select, three thousand for the use of the Senate, and seven thousand for the House; and they shall also furnish in the same ratio, fifteen hundred copies of each of the forthcoming reports designated, respectively, C. and H.H.: *Provided*, That nothing in this act shall be construed to authorize the re-printing of any of the reports aforesaid.

To furnish 10,000 copies to Senate and House.

SECTION 3. That one hundred copies of each of the reports in the hands of the said commissioners be placed at the disposal of the executive department of the State, for distribution to other States and countries and public institutions.

100 copies to be at disposal of executive department.

APPROVED—The 18th day of April, A. D. 1877.

J. F. HARTRANFT.

## SESSION OF 1877.

No. 70.

### AN ACT

To make an appropriation for the continuance of the geological survey of the State.

SECTION 1. *Be it enacted, &c.*, That the sum of one hundred thousand dollars is hereby appropriated, to be expended according to the provisions of an act, entitled "An Act to provide for a geological survey of the State," approved May 14th, one thousand eight hundred and seventy-four, fifty thousand dollars for the work of the year eighteen hundred and seventy-eight, and fifty thousand dollars for the work of the year eighteen hundred and seventy-nine.

Appropriation of \$100,000.

APPROVED—The 18th day of April, A. D. 1877.

J. F. HARTRANFT.

## SESSION OF 1878.

No. 5.

## AN ACT

To provide for the distribution of the sectional report of the geological survey.

Distribution of reports provided for.

SECTION 1. *Be it enacted, &c.*, That the commissioners of the geological survey shall furnish to the Senate and House of Representatives, for distribution to the people, one thousand bound copies each of the volumes marked, respectively, H. H. H. and I. I., and also a like number of bound copies of each of the forthcoming reports of the survey, three hundred and fifty of each for the use of the Senate, and six hundred and fifty for the use of the House. They shall also furnish to the executive department one hundred bound copies of each of the reports as above for distribution to other States and public institutions.

APPROVED—The 15th day of March, A. D. 1878.

J. F. HARTRANFT.

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No. 13.

## JOINT RESOLUTION

Directing the printing of reports and documents for the use of the Senate and House of Representatives and the department of Internal Affairs.

SECTION 1. *Be it resolved, &c.*, That there be printed for the present year for the use of the Senate and House of Representatives and department of Internal Affairs, the following additional copies of reports and documents, to be distributed as follows:

Three thousand five hundred copies of each volume of the geological survey reports heretofore issued, and a like number of each volume of the reports of said survey which are now in process of publication, one thousand copies of each volume for the use of the Senate, and two thousand five hundred for the use of the House of Representatives.

APPROVED—The 3d day of May, A. D. 1878.

J. F. HARTRANFT.

## SESSION OF 1879.

No. 177.

## AN ACT

To make an appropriation for the continuance of the geological survey of the State.

SECTION 1. *Be it enacted, &c.*, That the sum of fifty thousand dollars is hereby appropriated, to be expended according to the provisions of an act, entitled "An Act to provide for a geological survey of the State," approved May 14th, one thousand eight hundred and seventy-four, for the work of the year eighteen hundred and eighty. Appropriation of \$50,000.

APPROVED—The 11th day of June, A. D. 1879.

HENRY M. HOYT.

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No. 189.

## AN ACT

Directing the printing and distribution of the reports of the commissioners of the geological survey for the use of the Senate and House of Representatives.

WHEREAS, The commissioners of the second geological survey of Pennsylvania have had printed, and now hold in reserve, two thousand five hundred copies of the larger maps and other illustrations accompanying the several reports of said survey, and as said reports are required by the citizens of this Commonwealth; therefore, Preamble.

SECTION 1. *Be it enacted, &c.*, That there be printed for the present year, two thousand five hundred copies of each volume of the geological survey reports heretofore and hereafter to be issued, six hundred copies of each volume for the use of the Senate and one thousand nine hundred of each volume for the use of the House of Representatives; and the commissioners of the geological survey are hereby directed to deliver to the superintendent of public printing and binding the maps and illustrations already printed and in their possession, in order that they may be bound in the volumes directed to be furnished by this act: *Provided*, That the maps and illustrations already printed, and the stereotype plates used in printing the edition now called for shall not be charged a second time by the State Printer. 2500 copies of each volume to be printed.

APPROVED—The 12th day of June, A. D. 1879.

HENRY M. HOYT.

## RESOLUTION.

No. 13.

IN THE HOUSE OF REPRESENTATIVES,

*March 24th, 1879.*

Preamble.

WHEREAS, With one or two unimportant exceptions, all the known accessible anthracite coal in the world is found within the limits of the State of Pennsylvania:

*And whereas,* By various enactments of former Legislatures of this Commonwealth, the care and management of these precious deposits of fuel, which are very limited in extent, have been committed to bodies corporate with almost unlimited powers and with consequent responsibilities:

*And whereas,* The anthracite coal field, the seat of the most important mineral interest in the State, is rapidly becoming exhausted, under the present wasteful and unprofitable system of mining and selling the same, which is returning no just recompense to the land owner, the operator, the miner; therefore,

Request for  
geological sur-  
vey of anthra-  
cite coal region.

*Be it resolved* (the Senate concurring), That the board of commissioners of the geological survey of the State be requested to cause a survey and examination of the anthracite coal region to be made, paying special attention to the question of the rapid exhaustion of this most valuable deposit, more economy in the methods of mining, the avoidance of the great waste and overproduction now threatening ruin to all interested in the trade, and to make a special report with reference to these subjects, and suggesting if possible a remedy for the evils above recited.

Extract from the journal.

JOHN A. SMULL,

*Resident Clerk, House of Representatives.*

In the Senate, March 25th, 1879. The foregoing preamble and resolution concurred in.

THOS. B. COCHRAN,

*Chief Clerk, Senate.*

APPROVED—The 28th day of March, A. D. 1879.

HENRY M. HOYT.

## SESSION OF 1881.

No. 38.

## AN ACT

To make an appropriation for the geological survey of the State.

SECTION 1. *Be it enacted, &c.*, That the sum of one hundred and twenty-five thousand dollars be and the same is hereby appropriated, to be expended according to the provisions of an act, entitled "An act to provide for a geological survey of the State," approved May 14th, one thousand eight hundred and seventy-four: *Provided*, That not more than fifty thousand dollars shall be expended in any year: *And provided, further*, That the said survey shall be completed, so far as the field work is concerned, by the end of the calendar year, one thousand eight hundred and eighty-three.

Appropriation  
of \$125,000.

APPROVED—The 26th day of May, A. D. 1881.

HENRY M. HOYT.

## SESSION OF 1883.

No. 7.

## AN ACT

To place the collections of the second geological survey of Pennsylvania in charge of the Academy of Natural Sciences of Philadelphia.

WHEREAS, The Academy of Natural Sciences of Philadelphia, a society founded in one thousand eight hundred and twelve, and lawfully incorporated in one thousand eight hundred and seventeen, for the encouragement and cultivation of the sciences, and devoted entirely to the advancement of useful learning, has signified its willingness to assume the custody of the collections of specimens made by the second geological survey of Pennsylvania, and to freely exhibit the same, without rental or other charge to the State; therefore;

Preamble./

SECTION 1. *Be it enacted, &c.*, That the commissioners in charge of the second geological survey of Pennsylvania, be and are hereby authorized and directed to deliver free of expense to the Academy of Natural Sciences of Philadelphia the specimens collected during the sur-

Academy of  
Natural  
Sciences of  
Philadelphia  
made custodian  
of specimens.

To be exhibited without fee.

vey, which specimens are to remain in the custody of the Academy until otherwise provided by law as the property of the State, to be exhibited without fee to those persons who may desire to view or study the same, at such times and under such rules as may be prescribed by said Academy from time to time.

APPROVED—The 4th day of April, A. D. 1883.

ROBT. E. PATTISON.

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No. 159.

AN ACT

Making an appropriation for the geological survey of the anthracite region of the State.

Appropriation of \$50,000.

Expenditures heretofore made on account of said survey may be re-imbursed.

SECTION 1. *Be it enacted, &c.*, That the sum of fifty thousand dollars is hereby specially appropriated for the continuance of the geological survey of the anthracite coal region of the State, to be expended according to the provisions of an act, entitled "An act to provide for a geological survey of the State," approved the fourteenth day of May, one thousand eight hundred and seventy-four: *Provided*, That any expenditure for said anthracite survey which shall have been paid out of the appropriations for the general survey of the State, after the first day of January, one thousand eight hundred and eighty-three, and prior to the passage of this act, may be reimbursed to the said general appropriation out of the special appropriation hereby made.

APPROVED—The 28th day of June, A. D. 1883.

ROBT. E. PATTISON.

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RESOLUTION

No. 2.

IN THE SENATE, *January 15, 1883.*

Preamble.

WHEREAS, It has been publicly asserted that the Second Geological Survey of the State has been conducted with insufficient care and thoroughness; therefore;

*Resolved by the Senate and House of Representatives,* Committee to inquire into the management and efficiency of the Second Geological Survey.  
That a committee, consisting of two members of the Senate and three of the House, be appointed, with authority to send for persons and papers, to inquire into the manner and efficiency of said survey, and report thereon during the session to the General Assembly. Report.

Extract from the journal of the Senate.

THOS. B. COCHRAN,  
*Chief Clerk of the Senate.*

IN THE HOUSE, *January 18, 1883.*

The foregoing resolution concurred in.

P. GRAY MEEK,  
*Chief Clerk of the House of Representatives.*

APPROVED—The 20th day of January, A. D. 1883.

ROBT. E. PATTISON.

## RESOLUTION

No. 24.

IN THE HOUSE OF REPRESENTATIVES, *March 28, 1883.*

*Resolved,* By the House of Representatives (the Senate concurring), That one thousand copies of the report of the joint committee appointed by the Senate and House of Representatives to investigate the Second Geological Survey of Pennsylvania, be printed, seven hundred for the use of the House, and three hundred for the use of the Senate. Report of Committee to investigate the Second Geological Survey to be printed.

Extract from the journal of the House of Representatives.

P. GRAY MEEK,  
*Chief Clerk of the House of Representatives.*

IN THE SENATE, *March 29, A. D. 1883.*

The foregoing resolution concurred in.

THOS. B. COCHRAN,  
*Chief Clerk of the Senate.*

APPROVED—The 12th day of April, A. D. 1883.

ROBT. E. PATTISON.

## SESSION OF 1885.

No. 177.

## AN ACT

Making an appropriation for continuing the work of the geological survey of the State.

Appropriation  
of \$50,000 made  
and how to be  
expended.

Expenditures  
for certain sec-  
tions of the  
State limited.

SECTION 1. *Be it enacted, &c.,* That the sum of fifty thousand dollars be and the same is hereby appropriated to be expended according to the provisions of an act, entitled "An act to provide for a geological survey of the State," approved the fourteenth day of May, one thousand eight hundred and seventy-four: *Provided,* That not more than nineteen thousand dollars be expended annually to continue the anthracite survey, and not more than two thousand dollars be expended annually to extend the oil and gas region survey, and not more than four thousand dollars shall be expended annually to extend the survey in the bituminous regions of the Monongahela Valley, and Pittsburgh coal regions and continue unfinished surveys in the iron-ore regions.

APPROVED—The 3d day of July, A. D. 1885.

ROBT. E. PATTISON.

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No. 182.

## AN ACT

To distribute the publications of the geological survey, and amend an act, entitled "An act to provide for a geological survey of the State," approved the fourteenth day of May, eighteen hundred and seventy-four.

Preamble No. 1.

WHEREAS, By section ten of an act approved the fourteenth day of May, eighteen hundred and seventy-four, entitled "An act to provide for a geological survey of the State" it is provided as follows: "Copies of the reports with all maps and supplements shall be donated to all public libraries, universities and colleges in the State and shall be furnished at cost of publication to all other applicants for them;"

Preamble No. 2.

*And whereas,* The sale of these reports has almost ceased by reason of the gratuitous distribution thereof under subsequent acts of Assembly, authorizing the printing of copies of the said reports for the use of members of the Legislature;

*And whereas,* There remain in the custody of the board of commissioners of the geological survey large numbers of these reports, which, for the reason above mentioned, cannot be sold, and which, under existing laws, cannot be otherwise distributed; therefore,

Preamble No. 3.

SECTION 1. *Be it enacted, &c.,* That the board of commissioners of the geological survey are hereby authorized and directed to distribute the remaining copies of said reports as follows: Fifty copies of each report to the State Librarian for distribution and exchange with other States and Territories, and of the balance, an equal number of volumes to each member of the present Senate and House of Representatives, making the sets complete as far as practicable.

Distribution of volumes now printed regulated.

SECTION 2. That of each report hereafter published, three thousand five hundred copies shall be printed, which shall be distributed by the board of commissioners, as follows: Five hundred copies to the Senate, two thousand copies to the House of Representatives, one hundred and fifty copies to the State geologist, out of which he shall donate copies to authors and to members of the survey corps as heretofore granted, six hundred copies to the board of commissioners for distribution to public libraries, universities and colleges in the State, to parties rendering material assistance to the survey, and for exchange with foreign societies and geologists, and fifty copies thereof to the members of the board, one hundred copies to the Secretary of Internal Affairs for distribution by him, one hundred copies to the Governor for distribution by him, and fifty copies to the State Librarian for distribution and exchange with other States and Territories.

Distribution of volumes hereafter published.

SECTION 3. That so much of the act of May fourteenth, eighteen hundred and seventy-four, recited in the preamble, as requires the reports to be sold, and all other acts and parts of acts inconsistent herewith be and the same are hereby repealed.

Repeal.

APPROVED—The 3d day of July, A. D. 1885.

ROBT. E. PATTISON.

Family  
1897